

§8.1: BASIC DEFINITIONS

1.] Sketch the graph $G = (V, E)$ defined by

$$V = \{1, 2, 3, 4, 5, 6\}$$

$$E = \{(1, 2), (1, 5), (2, 3), (2, 4), (3, 4), (3, 5), (4, 3), (4, 6), (5, 2), (5, 6)\}$$

- 2.] For each graph given below, find (a) a chain that's not a path, (b) a path, (c) a cycle, (d) a tree, and (e) a spanning tree.

